

ABSTRACT OF THE DISCLOSURE

A negative-working CTP plate which is superior in resolution and printing resistance of the image area of a press plate is provided, which is obtained by forming a latent image on a heat-sensitive layer in a heat-sensitive lithographic printing plate comprising a substrate having a hydrophilic surface and a heat-sensitive layer made of an alkali-soluble polymer formed on the surface of the substrate, using heat generated upon irradiation with laser light, and developing the heat-sensitive layer using an alkaline developing solution. In the heat-sensitive lithographic printing plate comprising a substrate having a hydrophilic surface, and a heat-sensitive layer made of an alkali-soluble polymer formed on the surface of the substrate, an advancing contact angle (θ^f) of the surface of the heat-sensitive layer with water at 25°C is within a range from 70° to 110°, a receding contact angle (θ^{b2}) of the surface of the heat-sensitive layer with water at 25°C after heating at 150°C for 3 minutes is larger than a receding contact angle (θ^{b1}) of the surface of the heat-sensitive layer with water at 25°C before heating, and a difference in receding contact angle before and after heating, ($\theta^{b2} - \theta^{b1}$), is larger than 1° and is smaller than 40°.